



# ENERGY STAR® Application for Certification

# 89

ENERGY STAR®  
Score<sup>1</sup>

## 23-160 - Main Warehouse

**Registry Name:** 23-160 - Main Warehouse  
**Primary Function:** Non-Refrigerated Warehouse  
**Gross Floor Area (ft²):** 50,451  
**Built:** 1965

**For Year Ending:** 09/30/2015<sup>2</sup>  
**Date Application Becomes Ineligible:** 01/28/2016

1. The ENERGY STAR Score is based on total source energy. A score of 75 is the minimum to be eligible for the ENERGY STAR.

2. Applications must be submitted to EPA within 120 days of the Year Ending Date. The award is not final until approval is received from EPA.



Please use the [Licensed Professional's Guide to the ENERGY STAR® for Commercial Buildings](http://www.energystar.gov/lpguide) for reference in completing this checklist  
 (http://www.energystar.gov/lpguide).

## Property & Contact Information

### Property Address

23-160 - Main Warehouse  
 Nevada National Security Site  
 Mercury, Nevada 89023

**Property ID:** 1713771

**Unique Building Identifier:** 121

**U.S. Agency Designated Covered**

**Facility ID:** 121

**U.S. Federal Real Property Unique Identifier:** 997019

### Property Owner

Department of Energy  
 232 Energy Way  
 North Las Vegas, NV 89030  
 702-295-1598

### Primary Contact

(b) (6)  
 P.O. Box 98521  
 M/S: NLV079  
 Las Vegas, NV 89193  
 702-295-(b) (6)  
 (b) (6)@nv.doe.gov

## 1. Review of Whole Property Characteristics

### Basic Property Information

#### 1) Property Name for Registry: 23-160 - Main Warehouse

Is this the official name to be displayed in the [Registry of ENERGY STAR Certified Buildings and Plants](#)?

☒ Yes

☐ No

If "No", please specify: \_\_\_\_\_

**2) Primary Function: Non-Refrigerated Warehouse**

Is this an accurate description of the primary use of this property?

☒ Yes ☐ No**3) Location:**Nevada National Security Site  
Mercury, Nevada 89023

Is this correct and complete?

☒ Yes ☐ No**4) Gross Floor Area: 50,451 ft<sup>2</sup>**

Does this represent the entire property? (i.e., no part of the building/property was excluded/subtracted from the total) If "no" please specify what space has been excluded.

☒ Yes ☐ No**5) Average Occupancy: (b) (4)**

Is this occupancy accurate for the entire 12 month period being assessed?

☒ Yes ☐ No**6) Number of Buildings: 1**

Does this number accurately represent all structures?

☒ Yes ☐ No**Notes:****Indoor Environmental Standards****1) Ventilation for Acceptable Indoor Air Quality**

Does this property meet the ASHRAE Standard 62 for ventilation for acceptable indoor air quality?

☒ Yes ☐ No**2) Acceptable Thermal Environmental Conditions**

Does this property meet the ASHRAE Standard 55 for thermal comfort?

☒ Yes ☐ No**3) Adequate Illumination**

Does this property adhere to the IESNA Lighting Handbook for lighting quality?

☒ Yes ☐ No**Notes:**



## 2. Review of Property Use Details

### Non-Refrigerated Warehouse: Warehouse

★ This Use Detail is used to calculate the 1-100 ENERGY STAR Score.

#### ★ 1) Gross Floor Area: 50,451 ft<sup>2</sup>

Is this the total size, as measured between the principal exterior surfaces of the enclosing fixed walls of the building(s)? This includes all areas inside the building(s) such as: occupied tenant areas, common areas, meeting areas, break rooms, restrooms, elevator shafts, mechanical equipment areas, and storage rooms. Gross Floor Area should not include interstitial plenum space between floors, which may house pipes and ventilation. Gross Floor Area is not the same as rentable, but rather includes all area inside the building(s). Leasable space would be a sub-set of Gross Floor Area. In the case where there is an atrium, you should count the Gross Floor Area at the base level only. Do not increase the size to accommodate open atrium space at higher levels. The Gross Floor Area should not include any exterior spaces such as balconies or exterior loading docks and driveways.

☒ Yes ☐ No

#### ★ 2) Weekly Operating Hours: (b) (4)

Is this the total number of hours per week that the property is occupied by the majority of the employees? It does not include hours when the property is occupied only by maintenance, security, or other support personnel. The Weekly Operating Hours is not the same as the hours during which the HVAC equipment is run, but rather should be based on the hours during which workers are present at the Warehouse. For properties with a schedule that varies during the year, Weekly Operating Hours refers to the schedule most often followed.

☒ Yes ☐ No

#### ★ 3) Number of Workers on Main Shift: (b) (4)

Is this the total number of workers present during the primary shift? This is not a total count of workers, but rather a count of workers who are present at the same time. For example, if there are two daily eight hour shifts of 100 workers each, the Number of Workers on Main Shift value is 100. Number of Workers on Main Shift may include employees of the property, sub-contractors who are onsite regularly, and volunteers who perform regular onsite tasks. Number of Workers should not include visitors to the buildings such as clients, customers, or patients.

☒ Yes ☐ No

#### ★ 4) Number of Walk-in Refrigeration/Freezer Units: 0

Is this the total count of walk-in units at the property? Walk-in Refrigeration/Freezers are typically very large units located in storage areas or commercial kitchens that would not be accessible to all building occupants. This count should only include large storage units that a person actually walks into in order to store or retrieve perishable goods.

☒ Yes ☐ No

#### ★ 5) Percent That Can Be Heated: 100

Is this the total percentage of the property that can be heated by mechanical equipment?

☒ Yes ☐ No

#### ★ 6) Percent That Can Be Cooled: 100

Is this the total percentage of the property that can be cooled by mechanical equipment? This includes all types of cooling from central air to individual window units.

☒ Yes ☐ No

**Notes:****3. Review of Energy Consumption****Data Overview****Site Energy Use Summary**

Electric - Grid (kBtu) 856,756.6 (100%)  
 Total Energy (kBtu) 856,756.6

**Energy Intensity**

Site (kBtu/ft<sup>2</sup>) 17  
 Source (kBtu/ft<sup>2</sup>) 53.3

**National Median Comparison**

National Median Site EUI (kBtu/ft<sup>2</sup>) 38.7  
 National Median Source EUI (kBtu/ft<sup>2</sup>) 121.4  
 % Diff from National Median Source EUI -56.1%

**Emissions (based on site energy use)**

Greenhouse Gas Emissions (Metric Tons CO<sub>2</sub>e) 134.7

**Power Generation Plant or Distribution Utility:**

Nevada Power Co [Berkshire Hathaway Inc]

Note: All values are annualized to a 12-month period. Source Energy includes energy used in generation and transmission to enable an equitable assessment.

**Summary of All Associated Meters**

The following meters are associated with the property, meaning that they are added together to get the total energy use for the property. Please see additional tables in this checklist for the exact meter consumption values.

Meter Name	Fuel Type	Start Date	End Date	Associated With
(b) (4)	Electric	01/01/2008	In Use	23-160 - Main Warehouse

**Total Energy Use**

☒ Yes ☐ No

Do the meters shown above account for the total energy use of this property during the reporting period of this application?

**Additional Fuels**

☒ Yes ☐ No

Do the meters above include all fuel types at the property? That is, no additional fuels such as district steam, generator fuel oil have been excluded.

**On-Site Solar and Wind Energy**

☒ Yes ☐ No

Are all on-site solar and wind installations reported in this list (if present)? All on-site systems must be reported.



Notes:

Electric Meter: (b) (4) (kWh (thousand Watt-hours))

Associated With: 23-160 - Main Warehouse

Start Date	End Date	Usage	Green Power?
10/01/2014	10/31/2014	8,520	No
11/01/2014	11/30/2014	12,010	No
12/01/2014	12/31/2014	14,600	No
01/01/2015	01/31/2015	58,080	No
02/01/2015	02/28/2015	29,837	No
03/01/2015	03/31/2015	29,837	No
04/01/2015	04/30/2015	29,837	No
05/01/2015	05/31/2015	22,930	No
06/01/2015	06/30/2015	10,075	No
07/01/2015	07/31/2015	10,075	No
08/01/2015	08/31/2015	13,290	No
09/01/2015	09/30/2015	12,010	No
Total Consumption (kWh (thousand Watt-hours)):			251,101
Total Consumption (kBtu (thousand Btu)):			856,756.6

Total Energy Consumption for this Meter

☒ Yes    ☐ No

Do the fuel consumption totals shown above include consumption of all energy tracked through this meter that affect energy calculations for the reporting period of this application (i.e., do the entries match the utility bills received by the property)?

Notes:

**4. Signature & Stamp of Verifying Licensed Professional**

(b) (6) (Name) visited this site on 9/30/15 (Date). Based on the conditions observed at the time of the visit to this property, I verify that the information contained within this application is accurate and in accordance with the Licensed Professional Guide.

Signature:

(b) (6)

Date:

11/10/15**Licensed Professional**

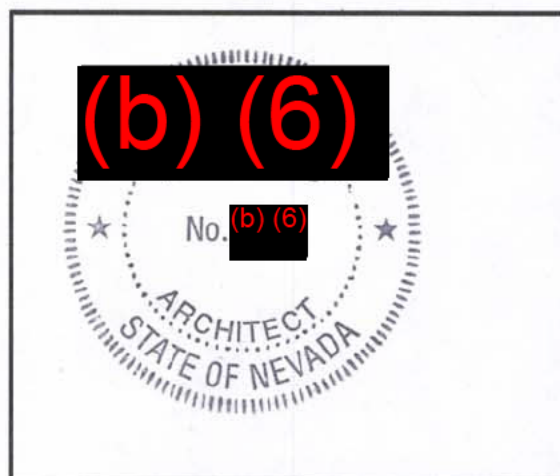
License: (b) (6) in NV

(b) (6)

P.O. Box 98521

M/S: NLV079

Las Vegas, NV 89193-8521

(b) (6)@nv.doe.gov  
(b) (6)@nv.doe.gov**Professional Engineer Stamp**

**NOTE:** When applying for the ENERGY STAR, the signature of the Verifying Professional must match the stamp.

**5. Signatory Agreement**

I hereby nominate the above described property for award of the ENERGY STAR. I have provided a copy of the Licensed Professionals Guide to the ENERGY STAR for Commercial Buildings to our Licensed Professional (LP) for reference. As documented by the above checklist, this property meets the conditions necessary to qualify as ENERGY STAR. I am submitting this application within four months of the Year Ending Date (September 30, 2015) used to generate the application. I will assist EPA, if requested, in verifying any data included in this application. Furthermore, I agree to associate the ENERGY STAR logo only with this property and to adhere to the ENERGY STAR Identity Guidelines.

Signature (must be a direct employee of the building owner/manager)

(b) (6)

Date:

11/14/15

Signatory Name: (b) (6)

Property Owner: Department of Energy

The government estimates the average time needed to fill out this form is 6 hours (includes the time for entering energy data, Licensed Professional facility inspection, and notarizing the SEP) and welcomes suggestions for reducing this level of effort. Send comments (referencing OMB control number) to the Director, Collection Strategies Division, U.S., EPA (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460